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LL      IIIIII  BBBB8888  MM      MM      AAAAAA  TTTTTTTTTT  CCCCCCCC  HH      HH
LL      IIIIII  BBBB8888  MM      MM      AAAAAA  TTTTTTTTTT  CCCCCCCC  HH      HH
LL      II      BB      BB  MMMM  MMMM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      BB      BB  MMMM  MMMM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      BB      BB  MM  MM  MM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      BBBB8888  MM      MM  AA      AA  TT      TT  CC      CC  HHHHHHHHHH
LL      II      BBBB8888  MM      MM  AA      AA  TT      TT  CC      CC  HHHHHHHHHH
LL      II      BB      BB  MM      MM  AAAAAAAAAA  TT      TT  CC      CC  HH      HH
LL      II      BB      BB  MM      MM  AAAAAAAAAA  TT      TT  CC      CC  HH      HH
LL      II      BB      BB  MM      MM  AA      AA  TT      TT  CC      CC  HH      HH
LL      II      BB      BB  MM      MM  AA      AA  TT      TT  CC      CC  HH      HH
LLLLLLLL  IIIIII  BBBB8888  MM      MM  AA      AA  TT      TT  CCCCCCCC  HH      HH
LLLLLLLL  IIIIII  BBBB8888  MM      MM  AA      AA  TT      TT  CCCCCCCC  HH      HH
                                         ....
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LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS
```

```
1 0001 0 MODULE LIBSMATCH_COND (%TITLE'Library Match Condition Value List'  
2 0002 0 IDENT = '1-003', ! File: LIBMATCH.B32 (Conflicts with LIBSMATCHC.MAR)  
3 0003 0 LINKAGE(FORTTRAN) ! Edit: SBL1003  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1  
8 0008 1  
9 0009 1  
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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27 0027 1  
28 0028 1  
29 0029 1  
30 0030 1  
31 0031 1  
32 0032 1 **  
33 0033 1 FACILITY: General Utility Library  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1  
37 0037 1 Check for a match between the condition value addressed by the  
38 0038 1 first parameter and the condition value addressed by the subsequent  
39 0039 1 parameters. Each parameter is the address of a condition value.  
40 0040 1 Only the pertinent fields are checked within the condition value.  
41 0041 1  
42 0042 1 ENVIRONMENT: User Mode - AST re-entrant  
43 0043 1  
44 0044 1 AUTHOR: Donald G. Petersen, CREATION DATE: 30-Nov-1977  
45 0045 1  
46 0046 1 MODIFIED BY:  
47 0047 1  
48 0048 1 Donald G. Petersen, 30-Nov-1977: VERSION 0  
49 0049 1 0-1 - original  
50 0050 1 0-2 - RETURN I - 1 DGP 05-DEC-77  
51 0051 1 0-3 - add . (dot) operator to COND VAL DGP 05-DEC-77  
52 0052 1 0-04 - Change to STARLET library. DGP 20-Apr-78  
53 0053 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78  
54 0054 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78  
55 0055 1 0-07 - Add check for facility specific bit. TNH 17-June-78  
56 0056 1 0-10 - Change file name to LIBMATCHC.B32, and change the name  
57 0057 1 of the REQUIRE file similarly. JBS 14-NOV-78
```



:	58	0058	1	:	0-011 - Change the file name to LIBMATCH.B32 to avoid conflict with
:	59	0059	1	:	LIBMATCHC.MAR (match characters) when producing object
:	60	0060	1	:	files. JBS 15-NOV-78
:	61	0061	1	:	1-001 - Change the version number to 1 and update
:	62	0062	1	:	the copyright notice. JBS 16-NOV-78
:	63	0063	1	:	1-002 - Declare ACTUALCOUNT, ACTUALPARAMETER and NULLPARAMETER
:	64	0064	1	:	for the new BLISS compiler. JBS 22-NOV-78
:	65	0065	1	:	1-003 - Use prologue file. SBL 24-June-1983
:	66	0066	1	:	--

```
68 0067 1 :  
69 0068 1 : PROLOGUE FILE:  
70 0069 1 :  
71 0070 1 :  
72 0071 1 REQUIRE 'RTLIN:LIBPROLOG';          ! LIB$ definitions  
73 0142 1 :  
74 0143 1 :  
75 0144 1 : TABLE OF CONTENTS:  
76 0145 1 :  
77 0146 1 :  
78 0147 1 FORWARD ROUTINE  
79 0148 1 LIBSMATCH_COND;          ! The routine which performs the comparisons.  
80 0149 1 :  
81 0150 1 :  
82 0151 1 : MACROS:  
83 0152 1 :  
84 0153 1 : NONE  
85 0154 1 :  
86 0155 1 : EQUATED SYMBOLS:  
87 0156 1 :  
88 0157 1 : NONE  
89 0158 1 :  
90 0159 1 : OWN STORAGE:  
91 0160 1 :  
92 0161 1 : NONE  
93 0162 1 :  
94 0163 1 : EXTERNAL REFERENCES:  
95 0164 1 :  
96 0165 1 : NONE
```

```

: 98      0166 1 GLOBAL ROUTINE LIBSMATCH_COND ( ! Routine which compares condition values
: 99      0167 1     COND_VAL, ! Adr. of desired condition value
: 100     0168 1     COND_VAL_1) ! Adr. of condition value to compare
: 101     0169 1     =
: 102     0170 1 ++
: 103     0171 1 FUNCTIONAL DESCRIPTION:
: 104     0172 1
: 105     0173 1 This routine will take a portion (ST$V_COND_ID) of the condition value pointed
: 106     0174 1 to by the first parameter and compare it to the same portion of the condition
: 107     0175 1 value pointed to by the second through nth parameters.
: 108     0176 1 If the facility specific bit (ST$V_FAC_SP) is set, the facility
: 109     0177 1 number (ST$V_FAC_NO), the facility specific bit, and the message
: 110     0178 1 code (ST$V_CODE) are included in the compare (ST$V_COND_ID).
: 111     0179 1 Otherwise, only the facility specific bit and the code are included (ST$V_MSG_NO).
: 112     0180 1 The routine returns a 0 if
: 113     0181 1 a match is not found, a 1 if the second parameter matches, a 2 if the third
: 114     0182 1 parameter matches and so on. A check is made for null parameter entries in the
: 115     0183 1 parameter list although the index is still incremented.
: 116     0184 1
: 117     0185 1 FORMAL PARAMETERS:
: 118     0186 1
: 119     0187 1     cond_val.rlc.r           Adr. of desired value
: 120     0188 1     (cond_val_i.rlc.r)       Adr. of value to compare
: 121     0189 1
: 122     0190 1 IMPLICIT INPUTS:
: 123     0191 1
: 124     0192 1     NONE
: 125     0193 1
: 126     0194 1 IMPLICIT OUTPUTS:
: 127     0195 1
: 128     0196 1     NONE
: 129     0197 1
: 130     0198 1 ROUTINE VALUE:
: 131     0199 1
: 132     0200 1     index.wlu.v
: 133     0201 1     0, if no match found
: 134     0202 1     i, for match between the 1st and (i+1)th parameter
: 135     0203 1
: 136     0204 1 SIDE EFFECTS:
: 137     0205 1
: 138     0206 1     NONE
: 139     0207 1
: 140     0208 1 --
: 141     0209 1
: 142     0210 1 ++
: 143     0211 1 Check for a null parameter each iteration.
: 144     0212 1 If not a null parameter then compare the 1st and (i+1)th parameters
: 145     0213 1 If no match is found by the time all parameters are exhausted then return a 0.
: 146     0214 1 --
: 147     0215 1
```



```
149 0216 2 BEGIN
150 0217 2
151 0218 2 BUILTIN ACTUALCOUNT, ACTUALPARAMETER, NULLPARAMETER;
152 0219 2
153 0220 2 IF .BLOCK[.COND_VAL, ST$V_FAC_SP; , BYTE]
154 0221 2 THEN ! Facility specific bit set
155 0222 2 BEGIN
156 0223 2 INCR I FROM 2 TO ACTUALCOUNT() DO
157 0224 2 IF NOT NULLPARAMETER(.I)
158 0225 2 THEN
159 0226 2 IF .BLOCK[.COND_VAL, ST$V_COND_ID; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), ST$V_COND_ID;
160 0227 2 THEN
161 0228 2 RETURN .I - 1
162 0229 2 END
163 0230 2
164 0231 2 ELSE ! Facility specific bit not set
165 0232 2
166 0233 2 BEGIN
167 0234 2 INCR I FROM 2 TO ACTUALCOUNT() DO
168 0235 2 IF NOT NULLPARAMETER(.I)
169 0236 2 THEN
170 0237 2 IF .BLOCK[.COND_VAL, ST$V_MSG_NO; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), ST$V_MSG_NO; ,
171 0238 2 THEN
172 0239 2 RETURN .I - 1
173 0240 2
174 0241 2 END;
175 0242 2
176 0243 2 RETURN 0
177 0244 2 END;
```

```
.TITLE LIBSMATCH_COND Library Match Condition Value Li
st
.IDENT \1-003\
```

```
.PSECT _LIB$CODE,NOWRT, SHR, PIC,2
```

				04	000C	00000		.ENTRY	LIBSMATCH_COND, Save R2,R3		0166
					BC	B5	00002	TSTW	@COND_VAL		0220
					2B	18	00005	BGEQ	3\$		
			52		6C	9A	00007	MOVZBL	(AP), R2		0223
			50		01	D0	0000A	MOVL	#1, 1		
					1D	11	0000D	BRB	2\$		
50		6C	08		00	ED	0000F	CMPZV	#0, #8, (AP), 1		0224
					16	19	00014	BLSS	2\$		
					6C40	D5	00016	TSTL	(AP)[1]		
					11	13	00019	BEQL	2\$		
			51		6C40	D0	0001B	MOVL	(AP)[1], R1		0226
53		61	19		03	EF	0001F	EXTZV	#3, #25, (R1), R3		
53	04	BC	19		03	ED	00024	CMPZV	#3, #25, @COND_VAL, R3		
					2A	13	0002A	BEQL	5\$		
		DF	50		52	F3	0002C	AOBLEQ	R2, 1, 1\$		0224
					30	11	00030	BRB	7\$		0222
			52		6C	9A	00032	MOVZBL	(AP), R2		0235
			50		01	D0	00035	MOVL	#1, 1		

50	6C	08	24	11	00038	BRB	6\$		
			00	ED	0003A	CMPZV	#0, #8, (AP), I		0236
			1D	19	0003F	BLSS	6\$		
			6C40	D5	00041	TSTL	(AP)[1]		
			18	13	00044	BEQL	6\$		
	53	51	6C40	D0	00046	MOVL	(AP)[1], R1		0238
		61	04	BC	AD 0004A	XORW3	@COND VAL (R1), R3		
	FFF8	8F	53	B3	0004F	BITW	R3, #85528		
			08	12	00054	BNEQ	6\$		
		51	FF	A0	9E 00056	MOVAB	-1(R0), R1		0240
		50	51	D0	0005A	MOVL	R1, R0		
				04	0005D	RET			
	DB	50	52	F3	0005E	AOBLEQ	R2, 1, 4\$		0236
			50	D4	00062	CLRL	R0		0243
				04	00064	RET			0244

; Routine Size: 101 bytes, Routine Base: \_LIB\$CODE + 0000

; 178 0245 1 END  
; 179 0246 0 ELUDOM

## PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	101	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

## Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	3	0	581	00:00.7
\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

## COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBMATCH/OBJ=OBJ\$:LIBMATCH MSRC\$:LIBMATCH/UPDATE=(ENH\$:LIBMATCH)

; Size: 101 code + 0 data bytes  
; Run Time: 00:03.0  
; Elapsed Time: 00:18.3



: Lines/CPU Min: 4871  
: Lexemes/CPU-Min: 14415  
: Memory Used: 58 pages  
: Compilation Complete



0208 AH-BT13A-SE  
VAX/VMS V4.0

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